

B14400-HW

14.4kWh High-voltage Battery

14.4kWh-86.4kWh

- Battery parallel scalability supported, up to 6 batteries per inverter, expandable to 86.4kWh
- Battery heating design, reliable charging and discharging even in extreme cold down to -20°C
- Highly integrated BMS and battery pack design with ultra-low standby power consumption for minimal energy loss.
- Automotive-grade main controller and AFE chips, delivering high-precision monitoring and long-term operational reliability
- Top-tier Safety,5-layer Battery Protection:
 - ①Full coverage temperature detection
 - ②BMS intelligent control, over-temp.,over-current, over-voltage protection
 - ③Built-in DC breaker
 - ④Internal aerosol fire extinguisher
 - ⑤Decompression valve
- IP65-rated design, unfazed by harsh environments
- Automatic fault isolation function ensures that a single battery fault will not affect overall system operation
- Visible energy tracking & OTA upgrade on Hinen APP



Technical Specification

Model	B14400-HW	B14400-HW x2	B14400-HW x3	B14400-HW x4	B14400-HW x5	B14400-HW x6
Rated Energy*(KWh)	14.4	28.8	43.2	57.6	72	86.4
Depth of Discharge(%)	95					
Usable Energy*(KWh)	13.68	27.36	41.04	54.72	68.40	82.08
Cell Type	LFP(LiFePO4)					
Cycle Life*	≥8000 cycles					
Configuration of System	90S1P	90S2P	90S3P	90S4P	90S5P	90S6P
Rated Voltage(V)	288					
Moc znamionowa (kW)	14.4					
Scalability	Maximum 6 Units in Parallel					
Operating Voltage(V)	225-324					
Maximum Charge/ Discharge Current*(A)	50					
Maximum Charge/ Discharge Power*(kW)	16.2					
Operating Temperature range	Charge:-20~55°C / Discharge:-20~60°C					
Storage Temperature and SOC	0~35°C @SOC60%					
Protection						
Overvoltage/ Undervoltage Protection	Yes					
Overcurrent Protection	Yes					
Overtemperature/ Undertemperature Protection	Yes					
System Operating No-Load Low Power Consumption	Yes					
DC Breaker	Yes					
General Data						
Communication	RS485/CAN/Ethernet					
Relative Humidity	10% to 85% no condensing					
Operating Altitude(m)	≤2000					
Ingress Protection	IP65					
Cooling Method	Natural convection					
Weight(kg)	117	234	351	468	585	702
Dimension (without footbolts) (W*H*D)(mm)	730*740*179.5	(730*740*179.5)*2	(730*740*179.5)*3	(730*740*179.5)*4	(730*740*179.5)*5	(730*740*179.5)*6
Dimension (with footbolts) (W*H*D)(mm)	730*750*179.5	(730*750*179.5)*2	(730*750*179.5)*3	(730*750*179.5)*4	(730*750*179.5)*5	(730*750*179.5)*6
Installation Location	Indoor/Outdoor					
Installation Method	Floor stand					
Warranty*	12 Years					
Certification	CB, CE, UKCA, LOA, SONCAR, RCM, EMC, ROHS, S-Mark,KBIA, UL IEC 62619:2022, IEC 60730-1 Appendix H,IEC/EN 62368-1, EN IEC61000-6-1/3, IEC 60529, IEC 60068-2-52 UN 38.3, MSDS					

Rated Energy*: Test conditions: 100% DOD, 0.5C charge and discharge at +25±2°C.
Usable Energy*: Test conditions: 95% DOD, 0.5C charge and discharge at +25±2°C.
Cycle Life*: Test conditions: 95% DOD, 0.2C charge and 0.5C discharge at +25±2°C.
Maximum Charge/Discharge Current/Power*: Maximum continuous charge/discharge current and power derating are related to temperature and SOC.
Warranty*: Refer to the product warranty terms for details.